

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

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|--|--|--|------------------|
| Applicant's or agent's file reference 03-00066PC | FOR FURTHER ACTION | | See item 4 below |
| International application No. PCT/JP2004/004178 | International filing date (day/month/year) 25 March 2004 (25.03.2004) | Priority date (day/month/year) 25 March 2003 (25.03.2003) | |
| International Patent Classification (IPC) or national classification and IPC 7 C25D 13/00, 13/06, B05D 1/36, 7/24 | | | |
| Applicant NIPPON PAINT CO., LTD. | | | |

- This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).
- This REPORT consists of a total of 4 sheets, including this cover sheet.
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.
- This report contains indications relating to the following items:

| | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |
- The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

| | |
|---|---|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004) | Date of issuance of this report 01 October 2005 (01.10.2005) |
| | Authorized officer Masashi Honda Telephone No. +41 22 338 70 10 |

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

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YASUTOMI Yasuo

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

03.8.2004

Applicant's or agent's file reference

03-00066PC

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/004176

International filing date (day/month/year)

25.03.2004

Priority date (day/month/year)

25.03.2003

International Patent Classification (IPC) or both national classification and IPC

Int.Cl. C25D13/00, C25D13/06, B05D1/36, B05D7/24

Applicant

NIPPON PAINT CO., LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

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4E 9832

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/004176

Box No. I

Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/ 004176

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|-------------|-----|
| Novelty (N) | Claims | <u>1-10</u> | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | | YES |
| | Claims | <u>1-10</u> | NO |
| Industrial applicability (IA) | Claims | <u>1-10</u> | YES |
| | Claims | | NO |

2. Citations and explanations

D1:JP 2002-265882 A (NIPPON PAINT CO., LTD.) 2002.09.18, hole Document
D2:JP 54-61246 A (KANSAI PAINT CO., LTD.) 1979.05.17, Claims
D3:JP 2002-531676 A (E. I. DU PONT DE NEMOURS AND COMPANY) 2002.09.24,
line 21, page16 to line 6, page 18
& EP 1144520 A & DE 19856990 A & WO 34397 A2
& DE 19934763 A & US 6509411 B1
D4:JP 5-263026 A (SHIMIZU CO.,LTD.) 1993.10.12, line 31-38,column 8,page5

The subject matter of claim 1-10 does not appear to involve an inventive step in view of the D1 cited in the ISR and the D2, D3 and D4 cited in the same,
Document 1 discloses a method of forming an electrocoating film comprising coating a work with a cationic electrocoating composition containing sulfonium and propargyl groups curable by heating and irradiation with an activation energy beam in which an electrodepositing step, an aqueous cleaning step, an activation energy beam irradiation step, and a post-baking step are serially carried out in the order mentioned. As disclosed in D2, D3 and D4, an electrodepositing step, a pre-baking step carried out before a post baking step is well-known.
Therefore, the person skilled in the art would easily conceive the idea of applying the technical feature a pre-baking step carried out before a post baking step employed in D2 and D3 to the invention disclosed in D1.